

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: WEI, Ying-Fei
- (ii) TITLE OF INVENTION: Transforming Growth Factor Alpha HIII
- (iii) NUMBER OF SEQUENCES: 10
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Carella, Byrne, Gilfillan, Cecchi, Stewart & Olstein
 - (B) STREET: 6 Becker Farm Road
 - (C) CITY: Roseland
 - (D) STATE: NJ
 - (E) COUNTRY: USA
 - (F) ZIP: 07068-1739
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: WordPerfect 5.1, Dos Text File
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: 08/778,545
 - (B) FILING DATE: January 3, 1997
 - (C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA
 - (A) APPLICATION NUMBER: 60/011,136
 - (B) FILING DATE: January 4, 1996
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: MULLINS, J.G.
 - (B) REGISTRATION NUMBER: 33,073
 - (C) REFERENCE/DOCKET NUMBER: 325800-541 (PF 220)
- (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 201-994-1700
 - (B) TELEFAX: 201-994-1744

(2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 923 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

GAAA ATG GCG CCT CAC GGC CCG GGT AGT CTT ACG ACC CTG GTG CCC TGG	49
Met Ala Pro His Gly Pro Gly Ser Leu Thr Thr Leu Val Pro Trp	
-25 -20 -15	
GCT GCC GCC CTG CTC CTC GCT CTG GGC GTG GAA AGG GCT CTG GCG CTA	97
Ala Ala Ala Leu Leu Ala Leu Gly Val Glu Arg Ala Leu Ala Leu	
-10 -5 1 5	
CCC GAG ATA TGC ACC CAA TGT CCA GGG AGC GTG CAA AAT TTG TCA AAA	145
Pro Glu Ile Cys Thr Gln Cys Pro Gly Ser Val Gln Asn Leu Ser Lys	
10 15 20	
GTG GCC TTT TAT TGT AAA ACG ACA CGA GAG CTA ATG CTG CAT GCC CGT	193
Val Ala Phe Tyr Cys Lys Thr Arg Glu Leu Met Leu His Ala Arg	
25 30 35	
TGC TGC CTG AAT CAG AAG GGC ACC ATC TTG GGG CTG GAT CTC CAG AAC	241
Cys Cys Leu Asn Gln Lys Gly Thr Ile Leu Gly Leu Asp Leu Gln Asn	
40 45 50	
TGT TCT CTG GAG GAC CCT GGT CCA AAC TTT CAT CAG GCA CAT ACC ACT	289
Cys Ser Leu Glu Asp Pro Gly Pro Asn Phe His Gln Ala His Thr Thr	
55 60 65 70	
GTC ATC ATA GAC CTG CAA GCA AAC CCC CTC AAA GGT GAC TTG GCC AAC	337
Val Ile Ile Asp Leu Gln Ala Asn Pro Leu Lys Gly Asp Leu Ala Asn	
75 80 85	
ACC TTC CGT GGC TTT ACT CAG CTC CAG ACT CTG ATA CTG CCA CAA CAT	385
Thr Phe Arg Gly Phe Thr Gln Leu Gln Thr Leu Ile Leu Pro Gln His	
90 95 100	
GTC AAC TGT CCT GGA GGA ATT AAT GCC TGG AAT ACT ATC ACC TCT TAT	433
Val Asn Cys Pro Gly Gly Ile Asn Ala Trp Asn Thr Ile Thr Ser Tyr	
105 110 115	
ATA GAC AAC CAA ATC TGT CAA GGG CAA AAG AAC CTT TGC AAT AAC ACT	481
Ile Asp Asn Gln Ile Cys Gln Gly Gln Lys Asn Leu Cys Asn Asn Thr	
120 125 130	
GGG GAC CCA GAA ATG TGT CCT GAG AAT GGA TCT TGT GTA CCT GAT GGT	529
Gly Asp Pro Glu Met Cys Pro Glu Asn Gly Ser Cys Val Pro Asp Gly	
135 140 145 150	
CCA GGT CTT TTG CAG TGT GTT GCT GAT GGT TTC CAT GGA TAC AAG	577
Pro Gly Leu Leu Gln Cys Val Cys Ala Asp Gly Phe His Gly Tyr Lys	
155 160 165	
TGT ATG CGC CAG GGC TCG TTC TCA CTG CTT ATG TTC TTC GGG ATT CTG	625
Cys Met Arg Gln Gly Ser Phe Ser Leu Leu Met Phe Phe Gly Ile Leu	
170 175 180	
GGA GCC ACC ACT CTA TCC GTC TCC ATT CTG CTT TGG GCG ACC CAG CGC	673
Gly Ala Thr Thr Leu Ser Val Ser Ile Leu Leu Trp Ala Thr Gln Arg	
185 190 195	
CGA AAA GCC AAG ACT TCA TGAAC TACAT AGGTCTTACC ATTGACCTAA	721
Arg Lys Ala Lys Thr Ser	
200	
GATCAATCTG AACTATCTTA GCCCAGTCAG GGAGCTCTGC TTCCCTAGAAA GGCATCTTTC	781

GCCAGTGGAT TCGCCTCAAG GTTGAGGCCG CCATTGGAAG ATGAAAAATT GCACTCCCTT	841
GGTAGACA AATACCAGTT CCCATTGGTG TTGTTGCCTA TAATAAACAC TTTTTCTTT	901
TTTAAAAAAA AAAAAAAA AA	923

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 229 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Met Ala Pro His Gly Pro Gly Ser Leu Thr Thr Leu Val Pro Trp Ala			
-25	-20	-15	-10
Ala Ala Leu Leu Leu Ala Leu Gly Val Glu Arg Ala Leu Ala Leu Pro			
	-5	1	5
Glu Ile Cys Thr Gln Cys Pro Gly Ser Val Gln Asn Leu Ser Lys Val			
10	15	20	
Ala Phe Tyr Cys Lys Thr Thr Arg Glu Leu Met Leu His Ala Arg Cys			
25	30	35	
Cys Leu Asn Gln Lys Gly Thr Ile Leu Gly Leu Asp Leu Gln Asn Cys			
40	45	50	55
Ser Leu Glu Asp Pro Gly Pro Asn Phe His Gln Ala His Thr Thr Val			
60	65	70	
Ile Ile Asp Leu Gln Ala Asn Pro Leu Lys Gly Asp Leu Ala Asn Thr			
75	80	85	
Phe Arg Gly Phe Thr Gln Leu Gln Thr Leu Ile Leu Pro Gln His Val			
90	95	100	
Asn Cys Pro Gly Gly Ile Asn Ala Trp Asn Thr Ile Thr Ser Tyr Ile			
105	110	115	
Asp Asn Gln Ile Cys Gln Gly Gln Lys Asn Leu Cys Asn Asn Thr Gly			
120	125	130	135
Asp Pro Glu Met Cys Pro Glu Asn Gly Ser Cys Val Pro Asp Gly Pro			
140	145	150	
Gly Leu Leu Gln Cys Val Cys Ala Asp Gly Phe His Gly Tyr Lys Cys			
155	160	165	
Met Arg Gln Gly Ser Phe Ser Leu Leu Met Phe Phe Gly Ile Leu Gly			
170	175	180	
Ala Thr Thr Leu Ser Val Ser Ile Leu Leu Trp Ala Thr Gln Arg Arg			
185	190	195	
Lys Ala Lys Thr Ser			
200.			

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 27 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CGCGGATCCG GGCAAAAGAA CCTTTGC

27

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 30 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

GCGTCTAGAC TAAAGCAGTG AGAACGAGCC

30

(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 34 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

CGCGGATCCG TCCATCATGG CGCCTCACGG CCCG

34

(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 33 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

GCGTCTAGAC TACATAAGCA GTGAGAACGA GCC

33

(2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 28 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

CGCGGATCCC GGGCAAAAGA ACCTTTGC

28

(2) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 33 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

GCGTCTAGAC TACATAAGCA GTGAGAACGA GCC

33

(2) INFORMATION FOR SEQ ID NO:9:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 30 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

GCGCTCAGAC ATAAGCAGTG AGAACGAGCC

30

(2) INFORMATION FOR SEQ ID NO:10:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 52 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

Gln	Gly	Leu	Asn	Lys	Cys	Asn	Asn	Thr	Gly	Asp	Pro	Glu	Met	Cys	Pro
1				5					10				15		
Glu	Asn	Gly	Ser	Cys	Val	Pro	Asp	Gly	Pro	Gly	Leu	Leu	Gln	Cys	Val
	20				25				25				30		
Cys	Ala	Asp	Gly	Phe	His	Gly	Tyr	Lys	Cys	Met	Arg	Gln	Gly	Ser	Phe
		35					40					45			
Ser	Leu	Leu	Met												
		50													